

Curriculum vitae

PERSONAL INFORMATION

SIMONE DI PRIMA

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REFERENCES

Majdi R. Abou Najm
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Department of Land, Air and Water Resources of the University of California (Davis, CA, 95616, United States).
Laurent Lassabatere
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Université de Lyon; UMR5023 Ecologie des Hydrosystèmes Naturels et Anthropisés (LEHNA); CNRS; ENTPE; Université Lyon 1; 3 rue Maurice Audin, 69518 Vaulx - en - Velin, France.

CURRENT POSITION

Name of University **Università degli Studi della Basilicata**
Department **Scuola di Scienze Agrarie, Forestali, Alimentari ed Ambientali**
Address and Country **Viale dell'Ateneo Lucano, 10 - 85100 Potenza, Italy**
E-mail **simone.diprima@unibas.it**
Current position **Researcher**
Period **2022-ongoing**

PREVIOUS POSITIONS

2019-2022 **Researcher**
University of Sassari
2018-2019 **Postdoctoral researcher**
Université Lyon 1 (France)
2016-2018 **Postdoctoral researcher**
University of Sassari (Italy)

SCOPUS METRICS

h-index: 23; documents by author: 63; Total citations: 1396.

QUALIFICATIONS

2020–2029 **Italian Professorship Qualification (Full Professor)**
National scientific qualification (*abilitazione scientifica nazionale*) to function as full professor (I fascia).
Competition sector: Agricultural, forest and biosystems engineering. CODE: 07/C1.
2017-2026 **Italian Professorship Qualification (Associate Professor)**
National scientific qualification (*abilitazione scientifica nazionale*) to function as associate professor (II fascia).
Competition sector: Agricultural, forest and biosystems engineering. CODE: 07/C1.

EDUCATION

1 Jan 2013–7 Mar 2016 **Doctorate of Philosophy** EQF level 8
Department of Agricultural and Forest Sciences, University of Palermo, Palermo (Italy)
Ph.D. course in "Sistemi Agro-Ambientali" curriculum "Idronomia Ambientale".
Dissertation: Improvement of BEST (Beerkan Estimation of Soil Transfer parameters) method for soil hydraulic characterization
1 Sep 2009–19 Jul 2011 **Master's Degree in Forestry and Environmental Sciences** EQF level 7
Department of Agricultural and Forest Sciences, University of Palermo, Palermo (Italy)
Sep 2003–20 May 2009 **Bachelor's degree in Forestry and Environmental Sciences** EQF level 6
Department of Agricultural and Forest Sciences, University of Palermo, Palermo (Italy)

RESEARCH PROJECTS

- 2022–2025 Project: WATERSTEM ([PRIN2020 - 20202WF53Z](#)) - Unraveling interactions between WATER and carbon cycles during drought and their impact on water resources and forest and grassland ecosystems in the Mediterranean climate.
Funding body: Italian Ministry of Universities and Research (MUR). Amount granted: 400K euro. PI: Christian Massari. PI affiliation: Italian national research council (CNR). Type of participation: research unit head.
- 2020–2023 Project: EWA-BELT (grant n° 862848) - Linking East and West African farming systems experience into a BELT of sustainable intensification.
Funding body: Horizon 2020. Amount granted: 7.5M euro. PI: Giovanna Seddaiu. PI affiliation: University of Sassari (Italy). Type of participation: researcher.
- 2020–2023 Project: GASPAM (grant n° LR72017AGRARIAROGGERO) – “Gestione agronomica sostenibile dei pascoli arborati mediterranei: processi eco-idrologici e servizi ecosistemici”.
Funding body: Sardinia region. PI: Pier Paolo Roggero. PI affiliation: University of Sassari (Italy). Type of participation: researcher. Research output: [Di Prima et al. \(2022\)](#), [\(2021\)](#).
- 2019–2023 Project: FIRElinks (COST Action CA18135) - Fire in the Earth System: Science & Society.
PI: Artemi Cerdà. PI affiliation: University of Valencia (Spain). Type of participation: substitute committee member. Research output: [Fernandez-Anez et al. \(2021\)](#).
- 2016–2018 Project: RECARE (European Union Seventh Framework Programme, FP7/2007-2013) - Research on protecting and remediating soil degradation threats across Europe.
PI: Coen Ritsema. PI affiliation: Wageningen University (The Netherlands). Type of participation: researcher. Research output: [Alagna et al. \(2018\)](#), [Di Prima et al. \(2017b\)](#), [\(2018a\)](#), [Prosdocimi et al. \(2017\)](#).
- 2015–2016 Project: Hydrosil (grant n° CGL2011-28776-C02-02) - Hydrologic characterization of forest at plot structures for management Adaptive.
Funding body: Spanish Ministry of Science and Innovation through the FEDER fund. PI: Antonio del Campo. PI affiliation: Polytechnic University of Valencia (Spain). Type of participation: research collaborator. Research output: [Di Prima et al. \(2017a\)](#).

TECHNOLOGY/ KNOWLEDGE TRANSFER AND CONTRACTS

- 1 Sep 2018–8 Aug 2019 Contract: postdoctoral researcher
Project: INFILTRON (grant n° ANR-17-CE04-0010) – Package for assessing infiltration & filtration functions of urban soils in stormwater management. Funding body: French National Research Agency (ANR). PI: Laurent Lassabatere. PI affiliation: Université Claude Bernard Lyon 1 (France).
Technology/Knowledge transfer: <https://bestsoilhydro.net/infiltrometer/>, [Concialdi et al. \(2020\)](#).
Research output: [Angulo-Jaramillo et al. \(2019\)](#), [Castellini et al. \(2021\)](#), [Di Prima et al. \(2020a\)](#), [\(2020b\)](#), [\(2019\)](#), [Lassabatere et al. \(2019a\)](#), [\(2019b\)](#), [\(2021\)](#).
- 1 Sep 2016–21 Dec 2016 Contract: research scholarship
Project: CISV (grant n° 2014COMM-0363). Funding body: Sicilian region. PI: Vincenzo Bagarello. PI affiliation: University of Palermo (Italy). Research output: [Alagna et al. \(2016\)](#), [\(2019\)](#).
- 30 Oct 2015–29 Feb 2016 Contract: research scholarship
Project: MiMoSe (grant n° RBFR121TWX_004) - Development of innovative models for multiscale monitoring of ecosystem services indicators in Mediterranean forests. Funding body: FIRB 2012 program of the Italian Ministry of Education, Universities and Research. PI: Sebastiano Cullotta. PI affiliation: University of Palermo (Italy). Research output: [Di Prima et al. \(2017a\)](#).
- 1 Sep 2014–30 Nov 2014 Contract: research scholarship provided by the Embassy of France in Italy
Project: Developments of the BEST procedure for soil hydraulic characterization. Funding body: French Ministry for Foreign Affairs. Research output: [Di Prima et al. \(2016\)](#).
- 7 Jul 2017–22 Jul 2017 Contract: research scholarship
Project: ESSEM (COST Action ES1306) - Earth System Science and Environmental Management. PI: Saskia Keesstra. PI affiliation: Wageningen University (the Netherlands). Research output: [Di Prima et al. \(2018e\)](#).
- 17 Jan 2012–17 Sep 2012 Contract: research scholarship
Project: CISS – Innovative methodologies for the hydraulic characterization and soil physical assessment of the Sicilian soils. Funding body: Sicilian region. PI: Vincenzo Bagarello. PI affiliation: University of Palermo (Italy). Research output: [Aiello et al. \(2014\)](#), [Bagarello et al. \(2013\)](#), [\(2014a\)](#), [\(2014b\)](#), [\(2014c\)](#), [\(2014d\)](#).
- 1 Aug 2008–4 Sep 2008 Contract: research scholarship
Project: Progetto Burundi. Funding body: Sicilian region. PI: Giuseppe Provenzano. PI affiliation: University of Palermo (Italy). Technology/knowledge transfer: <http://climateofburundi.altervista.org/>.
Research output: [Bagarello et al. \(2011\)](#).

REVIEW RECORDS

Reviewer for: Geoderma, Vadose Zone Journal, PeerJ, Catena, Soil and Tillage Research, Water, Journal of Hydrology and Hydromechanics, Land Degradation & Development, Journal of Agricultural Engineering, Journal of Hydrological Sciences.

Curriculum vitae

EDITOR RECORDS

Editor for *Air, Soil and Water Research* (ISSN:1178-6221).

Guest editor of the special issue "Soil Water Conservation: Dynamics and Impact" on *Water* (ISSN: 2073-4441).

Guest editor of the special issue "Soil Hydrology for a Sustainable Land Management. Theory and Practice" on *Water* (ISSN: 2073-4441).

Guest editor of the special issue " Nature-Based Solutions to Improve the Permeability of the Urban Landscape and Water Quality in Cities" on *Water* (ISSN: 2073-4441).

Guest editor of the special issue " The Progressive Replacement of Traditional Agriculture by Precision Livestock Farming and Super-Intensive Crops: Effects on Land Degradation and New Challenges" on *Sustainability* (ISSN:2071-1050).

TEACHING AND SUPERVISORY

- Academic years from 2019 to 2022: course of soil hydrology held at the University of Sassari.
- Academic years from 2019 to 2022: course of water resources held at the University of Sassari.
- Tutor of the BSc student Alessandro Ortu from the University of Sassari. Dissertation: A review of water harvesting techniques in Ghana and Tanzania.
- Training School on measurements for water and sediment connectivity (<http://connecteur.info/training-school-valencia/>). Earth System Science and Environmental Management (ESSEM) COST Action ES1306 "Connecting European connectivity research". El Teularet Soil Erosion and Degradation Research Station. Department of Geography, University of Valencia, Valencia (Spain). 26 Sep 2017–1 Oct 2017.
- Co-advisor of the PhD student Paola Concialdi from Università degli Studi di Palermo, during her period at the Laboratory d'Ecologie des Hydrosystèmes Naturels et Anthropisés (LEHNA), Vaulx - en - Velin, France, within the framework of the project INFILTRON (ANR-17-CE04-0010) funded by the French National Research Agency (ANR).

CONFERENCE PARTECIPATION

- Vienna, Austria, 23–27 May 2022. European Geosciences Union General Assembly.
- Vienna, Austria, 19–30 April 2021. European Geosciences Union General Assembly (Sharing Geoscience Online).
- Vienna, Austria, 4–8 May 2020. European Geosciences Union General Assembly (Sharing Geoscience Online).
- Sofia, Bulgaria, 7–9 October 2019. First General Assembly Meeting of the COST Action FireLinks (ECOST-MEETING).
- Vienna, Austria, 7–12 April 2019. European Geosciences Union General Assembly 2019.
- Vienna, Austria, 8–13 April 2018. European Geosciences Union General Assembly 2018.
- Barcelona, Spain, 29 January–2 February 2018. TERRAenVISION.
- Trier, Germany, 23–25 November 2017. Vineyards: Connecting dynamics, processes and farmers (ECOST-MEETING).
- Palermo, 4–5 May 2017. Attualità dell'idraulica agraria e delle sistemazioni idraulico-forestali al cambiare dei tempi.
- Vienna, Austria, 23–28 April 2017. European Geosciences Union General Assembly 2017.
- Vienna, Austria, 17–22 April 2016. European Geosciences Union General Assembly 2016.
- Palermo, 28 February–5 March 2016. Hydrological and Erosion processes in Mediterranean Landscapes: Impacts of land management on connectivity (ECOST-MEETING).
- Vienna, Austria, 12–17 April 2015. European Geosciences Union General Assembly 2015.
- Bari, 10–14 September 2013. CIGR Inter-Regional Conference on Land and Water Challenges.
- Napoli, 19–20 June 2013. Four Decades of Progress in Monitoring and Modeling of Processes In the Soil-Plant-Atmosphere System: Applications and Challenges.
- Palermo, 10-11 May 2012. Previsione e Mitigazione dei Fenomeni di Dissesto Idrogeologico in Italia – Il Contributo del Settore delle Sistemazioni Idraulico-Forestali.

PUBLICATIONS LIST

1. Abou Najm, M.R., Stewart, R.D., **Di Prima, S.**, Lassabatere, L., 2021. A simple correction term to model infiltration in water-repellent soils. *Water Resources Research* 57. <https://doi.org/10.1029/2020WR028539>
2. Aiello, R., Bagarello, V., Barbagallo, S., Consoli, S., **Di Prima, S.**, Giordano, G., Iovino, M., 2014. An assessment of the Beerkan method for determining the hydraulic properties of a sandy loam soil. *Geoderma* 235–236, 300–307. <https://doi.org/10.1016/j.geoderma.2014.07.024>
3. Alagna, V., Bagarello, V., **Di Prima, S.**, Giordano, G., Iovino, M., 2016a. Testing infiltration run effects on the estimated water transmission properties of a sandy-loam soil. *Geoderma* 267, 24–33. <https://doi.org/10.1016/j.geoderma.2015.12.029>
4. Alagna, V., Bagarello, V., **Di Prima, S.**, Giordano, G., Iovino, M., 2013. A simple field method to measure the hydrodynamic properties of soil surface crust. *Journal of Agricultural Engineering* 44, 74–79. <https://doi.org/10.4081/jae.2013.255>
5. Alagna, V., Bagarello, V., **Di Prima, S.**, Guitoli, F., Iovino, M., Keesstra, S., Cerdà, A., 2019. Using Beerkan experiments to estimate

- hydraulic conductivity of a crusted loamy soil in a Mediterranean vineyard. *Journal of Hydrology and Hydromechanics* 67, 191–200. <https://doi.org/10.2478/johh-2018-0023>
6. Alagna, V., Bagarello, V., **Di Prima, S.**, Iovino, M., 2016b. Determining hydraulic properties of a loam soil by alternative infiltrometer techniques. *Hydrological Processes* 30, 263–275. <https://doi.org/10.1002/hyp.10607>
 7. Alagna, V., **Di Prima, S.**, Rodrigo-Comino, J., Iovino, M., Pirastru, M., Keesstra, S.D., Novara, A., Cerdà, A., 2018. The Impact of the Age of Vines on Soil Hydraulic Conductivity in Vineyards in Eastern Spain. *Water* 10. <https://doi.org/10.3390/w10010014>
 8. Angulo-Jaramillo, R., Bagarello, V., **Di Prima, S.**, Gosset, A., Iovino, M., Lassabatere, L., 2019. Beerkan Estimation of Soil Transfer parameters (BEST) across soils and scales. *Journal of Hydrology* 576, 239–261. <https://doi.org/10.1016/j.jhydrol.2019.06.007>
 9. Awada, H., **Di Prima, S.**, Sirca, C., Giadrossich, F., Marras, S., Spano, D., Pirastru, M., 2022. A remote sensing and modeling integrated approach for constructing continuous time series of daily actual evapotranspiration. *Agricultural Water Management* 260, 107320. <https://doi.org/10.1016/j.agwat.2021.107320>
 10. Awada, H., **Di Prima, S.**, Sirca, C., Giadrossich, F., Marras, S., Spano, D., Pirastru, M., 2021. Daily Actual Evapotranspiration Estimation in a Mediterranean Ecosystem from Landsat Observations Using SEBAL Approach. *Forests* 12, 189. <https://doi.org/10.3390/f12020189>
 11. Bagarello, V., Baiamonte, G., Castellini, M., **Di Prima, S.**, Iovino, M., 2014a. A comparison between the single ring pressure infiltrometer and simplified falling head techniques. *Hydrological Processes* 28, 4843–4853. <https://doi.org/10.1002/hyp.9980>
 12. Bagarello, V., Castellini, M., **Di Prima, S.**, Giordano, G., Iovino, M., 2013. Testing a Simplified Approach to Determine Field Saturated Soil Hydraulic Conductivity. *Procedia Environmental Sciences* 19, 599–608. <https://doi.org/10.1016/j.proenv.2013.06.068>
 13. Bagarello, V., Castellini, M., **Di Prima, S.**, Iovino, M., 2014b. Soil hydraulic properties determined by infiltration experiments and different heights of water pouring. *Geoderma* 213, 492–501. <https://doi.org/10.1016/j.geoderma.2013.08.032>
 14. Bagarello, V., Cecere, N., David, S.M., **Di Prima, S.**, 2020. Determining short-term changes in the hydraulic properties of a sandy-loam soil by a three-run infiltration experiment. *Hydrological Sciences Journal* 1191–1203. <https://doi.org/10.1080/02626667.2020.1735637>
 15. Bagarello, V., Cecere, N., **Di Prima, S.**, Giordano, G., Iovino, M., 2017a. Height of water pouring effects on infiltration runs carried out in an initially wet sandy-loam soil. *Chemical Engineering Transactions* 58, 721–726. <https://doi.org/10.3303/cet1758121>
 16. Bagarello, V., **Di Prima, S.**, Giordano, G., Iovino, M., 2014c. A test of the Beerkan Estimation of Soil Transfer parameters (BEST) procedure. *Geoderma* 221–222, 20–27. <https://doi.org/10.1016/j.geoderma.2014.01.017>
 17. Bagarello, V., **Di Prima, S.**, Iovino, M., 2017b. Estimating saturated soil hydraulic conductivity by the near steady-state phase of a Beerkan infiltration test. *Geoderma* 303, 70–77. <https://doi.org/10.1016/j.geoderma.2017.04.030>
 18. Bagarello, V., **Di Prima, S.**, Iovino, M., 2014d. Comparing Alternative Algorithms to Analyze the Beerkan Infiltration Experiment. *Soil Science Society of America Journal* 78, 724. <https://doi.org/10.2136/sssaj2013.06.0231>
 19. Bagarello, V., **Di Prima, S.**, Iovino, M., Provenzano, G., 2014e. Estimating field-saturated soil hydraulic conductivity by a simplified Beerkan infiltration experiment. *Hydrological Processes* 28, 1095–1103. <https://doi.org/10.1002/hyp.9649>
 20. Bagarello, V., **Di Prima, S.**, Iovino, M., Provenzano, G., Sgroi, A., 2011. Testing different approaches to characterize Burundian soils by the BEST procedure. *Geoderma* 162, 141–150. <https://doi.org/10.1016/j.geoderma.2011.01.014>
 21. Castellini, M., **Di Prima, S.**, Iovino, M., 2018. An assessment of the BEST procedure to estimate the soil water retention curve: A comparison with the evaporation method. *Geoderma* 320, 82–94. <https://doi.org/10.1016/j.geoderma.2018.01.014>
 22. Castellini, M., **Di Prima, S.**, Moret-Fernández, D., Lassabatere, L., 2021a. Rapid and accurate measurement methods for determining soil hydraulic properties: A review. *Journal of Hydrology and Hydromechanics* 69. <https://doi.org/10.2478/johh-2021-0002>
 23. Castellini, M., **Di Prima, S.**, Stewart, R., Biddoccu, M., Rahmati, M., Alagna, V., 2022. Advances in Ecohydrology for Water Resources Optimization in Arid and Semi-Arid Areas. *Water* 14, 1830. <https://doi.org/10.3390/w14121830>
 24. Castellini, M., Stellacci, A.M., **Di Prima, S.**, Iovino, M., Bagarello, V., 2021b. Improved Beerkan run methodology to assess water impact effects on infiltration and hydraulic properties of a loam soil under conventional- and no-tillage. *Soil Science Society of America Journal* 85, 235–248. <https://doi.org/10.1002/saj2.20191>
 25. Cerdà, A., Keesstra, S.D., Rodrigo-Comino, J., Novara, A., Pereira, P., Brevik, E., Giménez-Morera, A., Fernández-Raga, M., Pulido, M., **Di Prima, S.**, Jordán, A., 2017. Runoff initiation, soil detachment and connectivity are enhanced as a consequence of vineyards plantations. *Journal of Environmental Management* 202, Part 1, 268–275. <https://doi.org/10.1016/j.jenvman.2017.07.036>
 26. Concialdi, P., **Di Prima, S.**, Bhanderi, H.M., Stewart, R.D., Abou Najm, M.R., Lal Gaur, M., Angulo-Jaramillo, R., Lassabatere, L., 2020. An open-source instrumentation package for intensive soil hydraulic characterization. *Journal of Hydrology* 582. <https://doi.org/10.1016/j.jhydrol.2019.124492>
 27. **Di Prima, S.**, 2015. Automated single ring infiltrometer with a low-cost microcontroller circuit. *Computers and Electronics in Agriculture* 118, 390–395. <https://doi.org/10.1016/j.compag.2015.09.022>
 28. **Di Prima, S.**, Bagarello, V., Angulo-Jaramillo, R., Bautista, I., Cerdà, A., del Campo, A., González-Sanchis, M., Iovino, M., Lassabatere, L., Maetzke, F., 2017a. Impacts of thinning of a Mediterranean oak forest on soil properties influencing water infiltration. *Journal of Hydrology and Hydromechanics* 65, 276–286. <https://doi.org/10.1515/johh-2017-0016>
 29. **Di Prima, S.**, Bagarello, V., Lassabatere, L., Angulo-Jaramillo, R., Bautista, I., Burguet, M., Cerdà, A., Iovino, M., Prodocimi, M., 2017b. Comparing Beerkan infiltration tests with rainfall simulation experiments for hydraulic characterization of a sandy-loam soil. *Hydrological Processes* 31, 3520–3532. <https://doi.org/10.1002/hyp.11273>
 30. **Di Prima, S.**, Castellini, M., Majdi R. Abou Najm, Stewart, R.D., Angulo-Jaramillo, R., Winiarski, T., Lassabatere, L., 2019. Experimental assessment of a new comprehensive model for single ring infiltration data. *Journal of Hydrology* 573, 937–951. <https://doi.org/10.1016/j.jhydrol.2019.03.077>
 31. **Di Prima, S.**, Castellini, M., Pirastru, M., Keesstra, S., 2018a. Soil Water Conservation: Dynamics and Impact. *Water* 10, 952. <https://doi.org/10.3390/w10070952>

Curriculum vitae

32. **Di Prima, S.**, Castellini, M., Rodrigo-Comino, J., Cerdà, A., 2020a. Soil Hydrology for a Sustainable Land Management: Theory and Practice. *Water* 12, 1109. <https://doi.org/10.3390/w12041109>
33. **Di Prima, S.**, Concialdi, P., Lassabatere, L., Angulo-Jaramillo, R., Pirastru, M., Cerda, A., Keesstra, S., 2018b. Laboratory testing of Beerkan infiltration experiments for assessing the role of soil sealing on water infiltration. *CATENA* 167, 373–384. <https://doi.org/10.1016/j.catena.2018.05.013>
34. **Di Prima, S.**, Giannini, V., Ribeiro Roder, L., Giadrossich, F., Lassabatere, L., Stewart, R.D., Abou Najm, M.R., Longo, V., Campus, S., Winiarski, T., Angulo-Jaramillo, R., del Campo, A., Capello, G., Biddoccu, M., Roggero, P.P., Pirastru, M., 2022. Coupling time-lapse ground penetrating radar surveys and infiltration experiments to characterize two types of non-uniform flow. *Science of The Total Environment* 806, 150410. <https://doi.org/10.1016/j.scitotenv.2021.150410>
35. **Di Prima, S.**, Lassabatere, L., Bagarello, V., Iovino, M., Angulo-Jaramillo, R., 2016. Testing a new automated single ring infiltrometer for Beerkan infiltration experiments. *Geoderma* 262, 20–34. <https://doi.org/10.1016/j.geoderma.2015.08.006>
36. **Di Prima, S.**, Lassabatere, L., Rodrigo-Comino, J., Marrosu, R., Pulido, M., Angulo-Jaramillo, R., Úbeda, X., Keesstra, S., Cerdà, A., Pirastru, M., 2018c. Comparing Transient and Steady-State Analysis of Single-Ring Infiltrometer Data for an Abandoned Field Affected by Fire in Eastern Spain. *Water* 10. <https://doi.org/10.3390/w10040514>
37. **Di Prima, S.**, Marrosu, R., Lassabatere, L., Angulo-Jaramillo, R., Pirastru, M., 2018d. In situ characterization of preferential flow by combining plot- and point-scale infiltration experiments on a hillslope. *Journal of Hydrology* 563, 633–642. <https://doi.org/10.1016/j.jhydrol.2018.06.033>
38. **Di Prima, S.**, Rodrigo-Comino, J., Novara, A., Iovino, M., Pirastru, M., Keesstra, S., Cerdà, A., 2018e. Soil Physical Quality of Citrus Orchards Under Tillage, Herbicide, and Organic Managements. *Pedosphere* 28, 463–477. [https://doi.org/10.1016/S1002-0160\(18\)60025-6](https://doi.org/10.1016/S1002-0160(18)60025-6)
39. **Di Prima, S.**, Stewart, R.D., Abou Najm, M.R., Ribeiro Roder, L., Giadrossich, F., Campus, S., Angulo-Jaramillo, R., Yilmaz, D., Roggero, P.P., Pirastru, M., Lassabatere, L., 2021. BEST-WR: An adapted algorithm for the hydraulic characterization of hydrophilic and water-repellent soils. *Journal of Hydrology* 603, 126936. <https://doi.org/10.1016/j.jhydrol.2021.126936>
40. **Di Prima, S.**, Stewart, R.D., Castellini, M., Bagarello, V., Abou Najm, M.R., Pirastru, M., Giadrossich, F., Iovino, M., Angulo-Jaramillo, R., Lassabatere, L., 2020b. Estimating the macroscopic capillary length from Beerkan infiltration experiments and its impact on saturated soil hydraulic conductivity predictions. *Journal of Hydrology* 589, 125159. <https://doi.org/10.1016/j.jhydrol.2020.125159>
41. **Di Prima, S.**, Winiarski, T., Angulo-Jaramillo, R., Stewart, R.D., Castellini, M., Abou Najm, M.R., Ventrella, D., Pirastru, M., Giadrossich, F., Capello, G., Biddoccu, M., Lassabatere, L., 2020c. Detecting infiltrated water and preferential flow pathways through time-lapse ground-penetrating radar surveys. *Science of The Total Environment* 138511. <https://doi.org/10.1016/j.scitotenv.2020.138511>
42. Fernandez-Anez, N., Krasovskiy, A., Müller, M., Vacik, H., Baetens, J., Hukić, E., Kapovic Solomun, M., Atanassova, I., Glushkova, M., Bogunović, I., Fajković, H., Djuma, H., Boustras, G., Adámek, M., Devetter, M., Hrabalíková, M., Huska, D., Martínez Barroso, P., Vaverková, M.D., Zumr, D., Jögiste, K., Metslaid, M., Koster, K., Köster, E., Pumpanen, J., Ribeiro-Kumara, C., **Di Prima, S.**, et al., 2021. Current Wildland Fire Patterns and Challenges in Europe: A Synthesis of National Perspectives. *Air, Soil and Water Research* 14, 11786221211028184. <https://doi.org/10.1177/11786221211028185>
43. França, J.M. de, Coutinho, A.P., **Di Prima, S.**, Bezerra, S. de T.M., Santos, S.M. dos, Rabelo, A.E.C. de G. da C., Oliveira, A.L. de, Antonino, A.C.D., 2021. Variabilidade e distribuição espacial de propriedades hidrodinâmicas em solo com Caatinga preservada. *RBRH* 26. <https://doi.org/10.1590/2318-0331.262120210058>
44. Iovino, M., Abou Najm, M.R., Angulo-Jaramillo, R., Bagarello, V., Castellini, M., Concialdi, P., **Di Prima, S.**, Lassabatere, L., Stewart, R.D., 2021. Parameterization of a comprehensive explicit model for single-ring infiltration. *Journal of Hydrology* 601, 126801. <https://doi.org/10.1016/j.jhydrol.2021.126801>
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